Fei Zhang

List of Publications by Year
in descending order

36	1,858	318942	425179
papers	citations	23 h-index	34 g-index

37	37	37	1484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical propertiesâ€“translucencyâ€“microstructure relationships in commercial monolayer and multilayer monolithic zirconia ceramics. Dental Materials, 2022, 38, 797-810.	1.6	27
2	Accuracy of additively manufactured zirconia four-unit fixed dental prostheses fabricated by stereolithography, digital light processing and material jetting compared with subtractive manufacturing. Dental Materials, 2022, 38, 1459-1469.	1.6	19
3	Impact of sandblasting on the flexural strength of highly translucent zirconia. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104268.	1.5	39
4	Mechanical Properties of Dental Ceramics. , 2021, , 784-797.		0
5	Laser surface texturing of zirconia-based ceramics for dental applications: A review. Materials Science and Engineering C, 2021, 123, 112034.	3.8	76
6	Additively Manufactured Zirconia for Dental Applications. Materials, 2021, 14, 3694.	1.3	45
7	Alumina toughened zirconia reinforced with equiaxed and elongated lanthanum hexa-aluminate precipitates. Journal of the European Ceramic Society, 2021, 41, 247-255.	2.8	7
8	Influence of artificial aging on mechanical properties of commercially and non-commercially available zirconia dental implants. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103423.	1.5	27
9	Forty years after the promise of Â«ceramic steel?Â»: Zirconiaâ€based composites with a metalâ€like mechanical behavior. Journal of the American Ceramic Society, 2020, 103, 1482-1513.	1.9	88
10	Reliability and aging behavior of three different zirconia grades used for monolithic four-unit fixed dental prostheses. Dental Materials, 2020, 36, e329-e339.	1.6	17
11	Reliability of an injection-moulded two-piece zirconia implant with PEKK abutment after long-term thermo-mechanical loading. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103967.	1.5	9
12	Mechanical properties, aging stability and translucency of speed-sintered zirconia for chairside restorations. Dental Materials, 2020, 36, 959-972.	1.6	66
13	Zincâ€“Calciumâ€“Fluoride Bioglass-Based Innovative Multifunctional Dental Adhesive with Thick Adhesive Resin Film Thickness. ACS Applied Materials & Interfaces, 2020, 12, 30120-30135.	4.0	18
14	Importance of tetragonal phase in high-translucent partially stabilized zirconia for dental restorations. Dental Materials, 2020, 36, 491-500.	1.6	52
15	Microstructural analyses of artificial ageing in 5 commercially and non-commercially available Zirconia dental implants. Journal of the European Ceramic Society, 2020, 40, 3642-3655.	2.8	10
16	Structural/Chemical Characterization and Bond Strength of a New Self-Adhesive Bulk-fill Restorative. Journal of Adhesive Dentistry, 2020, 22, 85-97.	0.3	19
17	Is a Zirconia Dental Implant Safe When It Is Available on the Market?. Ceramics, 2019, 2, 568-577.	1.0	7
18	Trade-off between fracture resistance and translucency of zirconia and lithium-disilicate glass ceramics for monolithic restorations. Acta Biomaterialia, 2019, 91, 24-34.	4.1	138

#	Article	IF	Citations
19	Effect of grain orientation and magnesium doping on Î²-tricalcium phosphate resorption behavior. Acta Biomaterialia, 2019, 89, 391-402.	4.1	37
20	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. Dental Materials, 2019, 35, 1776-1790.	1.6	61
21	Slow crack growth resistance of electrically conductive zirconia-based composites with non-oxide reinforcements. Journal of the European Ceramic Society, 2019, 39, 641-646.	2.8	5
22	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. Dental Materials, 2018, 34, 508-518.	1.6	112
23	Effect of calcia co-doping on ceria-stabilized zirconia. Journal of the European Ceramic Society, 2018, 38, 2621-2631.	2.8	33
24	Residual compressive surface stress increases the bending strength of dental zirconia. Dental Materials, 2017, 33, e147-e154.	1.6	44
25	Slow crack growth and hydrothermal aging stability of an alumina-toughened zirconia composite made from La2O3-doped 2Y-TZP. Journal of the European Ceramic Society, 2017, 37, 1865-1871.	2.8	36
26	Strength, toughness and aging stability of highly-translucent Y-TZP ceramics for dental restorations. Dental Materials, 2016, 32, e327-e337.	1.6	260
27	Effect of cation dopant radius on the hydrothermal stability of tetragonal zirconia: Grain boundary segregation and oxygen vacancy annihilation. Acta Materialia, 2016, 106, 48-58.	3.8	85
28	Influence of Light Irradiation Through Zirconia on the Degree of Conversion of Composite Cements. Journal of Adhesive Dentistry, 2016, 18, 161-71.	0.3	17
29	Lifetime estimation of zirconia ceramics by linear ageing kinetics. Acta Materialia, 2015, 92, 290-298.	3.8	45
30	Highly-translucent, strong and aging-resistant 3Y-TZP ceramics for dental restoration by grain boundary segregation. Acta Biomaterialia, 2015, 16, 215-222.	4.1	117
31	Aging resistance of surface-treated dental zirconia. Dental Materials, 2015, 31, 182-194.	1.6	119
32	Bonding Effectiveness to Differently Sandblasted Dental Zirconia. Journal of Adhesive Dentistry, 2015, 17, 235-42.	0.3	25
33	Influence of mechanical and chemical activation on the hydraulic properties of gamma dicalcium silicate. Cement and Concrete Research, 2014, 55, 59-68.	4.6	72
34	Influence of sintering conditions on low-temperature degradation of dental zirconia. Dental Materials, 2014, 30, 669-678.	1.6	123
35	VALORISATION OF STAINLESS STEEL SLAGS AS A HYDRAULIC BINDER. Acta Metallurgica Slovaca, 2013, 19, 176-183.	0.3	3
36	Influence of Alumina Addition on Low Temperature Degradation of Y₂O₃-Coated Powder Based Y-TZP Ceramics. Advances in Science and Technology, 0, , .	0.2	0